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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/815,253	03/31/2004	Thomas Peh	34874-094 UTIL	7453	
64280	7590 10/10/2006		EXAMINER		
MINTZ, LEVIN, COHN, FERRIS, GLOVSKY & POPEO, P.C.			ADAMS, CHARLES D		
9255 TOWNE CENTER DRIVE SUITE 600		ART UNIT	PAPER NUMBER		
SAN DIEGO, CA 92121			2164		
			DATE MAILED: 10/10/2000	5	

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary Examiner		Application No.	Applicant(s)	_					
Charles D. Adams A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. If NO period for reply is specified above, the mainting date of this communication. If NO period for reply is specified above, the mainting date of this communication. If NO period for reply is specified above, the mainting date of this communication. If NO period for reply is specified above, the mainting date of this communication. If NO period for reply is specified above, the mainting date of this communication. If NO period for reply is specified above, the mainting date of this communication. If NO period for reply is specified above, the mainting date of this communication. If NO period for reply is specified above, the mainting date of this communication. If NO period for reply is specified above, the mainting date of this communication. If NO period for reply is specified above, the mainting date of this communication. Place of this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4 \(\Omega \text{ Claim(s)} \) 1:8 is/are pending in the application. 4 \(\Omega \text{ Claim(s)} \) 1:8 is/are pending in the application. 4 \(\Omega \text{ Claim(s)} \) 1:8 is/are pending in the application. 4 \(\Omega \text{ Claim(s)} \) 1:8 is/are pending in the application. 4 \(\Omega \text{ Claim(s)} \) 1:8 is/are pending in the application. 4 \(\Omega \text{ Claim(s)} \) 1:8 is/are pending in the application. 4 \(\Omega \text{ Claim(s)} \) 1:8 is/are pe	Office Action Occurrence	10/815,253	PEH, THOMAS						
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Art Unit: 2164

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1-3, 5, 10-12, and 14 rejected under 35 U.S.C. 102(e) as being anticipated by Matsubayashi et al. (US Pre-Grant Publication 2003/0101177, hereinafter "Matsubayashi et al. ('177)").

As to claim 1, Matsubayashi et al. ('177) teaches:

Receiving the guery (see paragraph [0076]);

Forming a reduced query document based on ranks of terms in the specified document (see paragraph [0079]);

Generating a modified query based on the query and the reduced query document (see paragraph [0079] and Figure 9, element 901);

Executing the modified query on a data repository to generate a set of results (see paragraphs [0080]-[0081]); and

Providing a result to a user interface (see paragraph [0067]).

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As to claim 2, Matsubayashi et al. ('177') teaches:

Wherein the result comprises a document that is similar to the specified document (see paragraphs [0067] and [0086]. A list of references it output. This comprises a document).

As to claim 3, Matsubayashi et al. ('177) teaches:

Wherein the result comprises a list of references to documents that are similar to the specified document (see paragraphs [0067] and [0086]. A list of references it output).

As to claim 5, Matsubayashi et al. ('177) teaches:

Wherein forming the reduced query document based on ranks of terms in the specified document excludes terms that are less selective (see paragraph [0079] "the feature word selection program is activated for selectively reading from the work area as the feature words the words whose weights are not smaller than a predetermined value").

As to claim 10, Matsubayashi et al. ('177) teaches:

A data repository, wherein the data repository is configured to store documents (see paragraph [0070] and [0075]); and

A program for executing queries on the data repository, wherein the program is operative to:

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Receive a query for at least one document similar to a specified document (see paragraph [0076]);

Form a reduced query document based on ranks of terms in the specified document (see paragraph [0079]);

Generate a modified query based on the query and the reduced query document (see paragraph [0079] and Figure 9, element 901);

Execute the modified query on the query repository to generate a set of results (see paragraphs [0080]-[0081]); and

Provide a result to a user interface (see paragraph [0067]).

As to claim 11, Matsubayashi et al. ('177) teaches:

Wherein the result comprises a document that is similar to the specified document (see paragraphs [0067] and [0086]. A list of references it output. This comprises a document).

As to claim 12, Matsubayashi et al. ('177) teaches:

Wherein the result comprises a list of references to documents that are similar to the specified document (see paragraphs [0067] and [0086]. A list of references it output).

As to claim 14, Matsubayashi et al. ('177) teaches:

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Wherein the operation of forming the reduced query document based on ranks of terms in the specified document excludes terms that are less selective (see paragraph [0079] "the feature word selection program is activated for selectively reading from the work area as the feature words the words whose weights are not smaller than a predetermined value")..

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 4 and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Matsubayashi et al. (US Pre-Grant Publication 2003/0101177, hereinafter "Matsubayashi et al. ('177)") in view of Ford et al. (US Pre-Grant Publication 2003/0195877).

As to claim 4, Matsubayashi et al. ('177) teaches a method in accordance with claim 1.

Matsubayashi et al. ('177) does not explicitly teach wherein the result indicates that no similar document was found in the repository.

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Ford et al. teaches wherein the result indicates that no similar document was found in the repository (see paragraph [0043] and [0168]. Ford et al. teaches that when there are no results to a query, a page is displayed informing a user).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified Matsubayashi et al. ('177) by the teaching of Ford et al., since it is well known in the art to inform a user when a user's query does not have any result. A person of ordinary skill would recognize the utility of informing a user that his or her query returned no results, because that would make it clear to the user that their query may be restrictive and to broaden or change their query as necessary.

As to claim 13, Matsubayashi et al. ('177) teaches the system of claim 10.

Matsubayashi et al. ('177) does not teach wherein the result indicates that no similar document was found in the data repository.

Ford et al. teaches wherein the result indicates that no similar document was found in the data repository (see paragraph [0043] and [0168]).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified Matsubayashi et al. ('177) by the teaching of Ford et al., since it is well known in the art to inform a user when a user's query does not have any result. A person of ordinary skill would recognize the utility of informing a user that his or her query returned no results, because that would make it

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clear to the user that their query may be restrictive and to broaden or change their query as necessary.

5. Claims 7-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Matsubayashi et al. (US Pre-Grant Publication 2003/0101177, hereinafter "Matsubayashi et al. ('177)") in view of Matsubayashi et al. (US Pre-Grant Publication 2003/0065658, hereinafter "Matsubayashi et al. ('658)".

As to claim 7, <u>Matsubayashi et al</u>. ('177) teaches a method in accordance with claim 1.

Matsubayashi et al. ('177) does not teach wherein the data repository is modeled in accordance with a vector space model and executing the modified query comprises calculating the similarity of the reduced query document with a comparison document in the data repository in accordance with the function Q • D / |Q|*|D| where Q is the reduced query document, D is the comparison document, Q • D is a scalar product of column vectors corresponding to each document such that each column is a vector including ranks of terms in the documents, and |Q| * |D| is a normalization factor.

<u>Matsubayashi et al.</u> ('658) teaches wherein the data repository is modeled in accordance with a vector space model and executing the modified query comprises calculating the similarity of the reduced query document with a comparison document in the data repository in accordance with the function $Q \cdot D / |Q|^*|D|$ where Q is the

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reduced query document, D is the comparison document (see paragraphs [0023]-[0027]. Vector A indicates the seed document (query document), and vector B indicates the registration document (comparison document)), Q • D is a scalar product of column vectors corresponding to each document such that each column is a vector including ranks of terms in the documents (cosines of angles respectively between the seeds document characteristic vector and the registration document characteristic vectors, paragraph [0025]), and |Q| * |D| is a normalization factor (see paragraphs [0023]-[0027]).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified Matsubayashi et al. ('177) by the teachings of Matsubayashi et al. ('658), since Matsubayashi et al. ('658) teaches "Particularly, in a knowledge management system for use in a firm, documentation of experiences, know-how, and the like of experts is increasingly desired to share and to use the experiences and know-how in documents resulted from the documentation. A high-precision search or retrieval function to simply and appropriately searches a large amount of knowledge accumulated in various forms in the organization of the firm for information desired by the user is quite important in the knowledge management system".

As to claim 8, Matsubayashi et al. ('177) as modified teaches wherein the normalization factor is the product of the norms of the column vectors corresponding to each document calculated in accordance with the equation

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sqrt(q1^2 + ... + qT^2).* sqrt(d1^2 + ... + dT^2) where sqrt signifies square root, q1 through qT are ranks of terms in the reduced query document, d1 through dT are ranks of terms in the comparison document, and T is the number of terms in an index of document vectors generated in accordance with the vector space model of the data repository (see paragraph [0025] and elements 403 and 407 of Figure 22 for the first equation listed and 407 and 404 of Figure 22 for the second equation present. Characteristic words have a 'rank' of '1'. In the first equation, four characteristic words exist in seed vector 407 and six in seed vector 403. The result has a normalization of sqrt(4) * sqrt(6)).

As to claim 9, Matsubayashi et al. ('177) as modified teaches wherein the scalar product of the column vectors is calculated in accordance with the equation (q1.d1 + q2.d2 + ... + qT.dT) where q1 through qT are ranks of terms in the reduced query document, d1 through dT are ranks of terms in the comparison document, and T is the number of terms in an index of document vectors generated in accordance with the vector space model of the data repository (see paragraph [0025] and elements 403 and 407 of Figure 22 for the first equation listed and 407 and 404 of Figure 22 for the second equation present. Characteristic words have a 'rank' of '1'. A comparison of the words in elements 403 and 407 reveal that only the 3rd word of element 407 is present in

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element 403's list. The numerator of the first equation matches this, with "1 x 0 + $1 \times 0 + 1 \times 1 + 1 \times 0$ ").

Allowable Subject Matter

6. Claim 6 and 15-18 objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Charles D. Adams whose telephone number is (571) 272-3938. The examiner can normally be reached on 8:30 AM - 5:00 PM, M - F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Charles Rones can be reached on (571) 272-4085. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

SAM RIMELL
PRIMARY EXAMINER

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Charles Adams AU2164